CHUMAKOV, M.P.

Classification and nomenclature of viruses of the antigen subgroup of tick-borne encephalitis. Vop. virus. 10 no.3:376-380 My-Je '65.

(MIRA 18:7)

1. Institut poliomiyelita i virusnykh entsefalitov AMN SSSR, Moskva.

SHESTOPALOVA, N.M.; REYNGOL*D, V.N.; GAVRILOVSKAYA, I.N.; BELYAYEVA, A.P.; CHUMAKOV, M.F.

Electron microscopic study of the morphology and localization of Omsk hemorrhagic fever virus in cells of the infected tissue culture. Vop. virus. 10 no.42425-430 Jl-Ag *65.

(MIRA 18:8)

1. Institut poliomiyelita i virusnykh entsefalitov AMN SSSR, Moskva.

NABOKOV, V.A., LARYUKHIN, M.A., TARABUKHIN, I.A., CHUMAK, N.F., CHIGIRIK, Ye.D.

Three years of experience in the control of sectors of tick-borne encephalitis in Kemerovo Province (1955-1957). Med. paraz. i paraz. bol. 27 no.2:199-207 Mr.Ap '58 (MIRA 11:5)

1. Iz sektora profilaktiki infektsiy Instituta malyarii, meditsinskoy parazitologii i gel'mintologii Ministerstva zdravookhraneniya SSSR (dir. instituta - prof. P.G. Sergiyev, zav. sektorom - prof. V.A. Nabokov) i iz Kemerovskoy oblastnoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach G.N. Naydich).

(ENCEPHALITIS, epidemiology tick-borne encephalitis, control of vectors (Rus)) (TICES.

control in prev. of tick-borne encephalitis (Rus))

CHUMAK, N. F., NAIDICH, G. N., CHIGIRIK, E, D., FLESHIVTSEVA, E. A.

"Prophylactic methods and local eradication of tick-terme encephalitis in some areas of the kemerovo oblast." Page 82

Desyatoye soveshcaniye po parazitologicheskim problemam i priodnoochagovym boleznyam. 22-29 Cktyabrya 1959 g. (Tenth Conference on Farasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

"G. Ya. Sedov in the Soviet Far East," Chronicles of the North; Yearbook of Historical Geography, History of Geographical Discoveries and Exploration of the North, v. 2, Moscow, Geografgiz, 1957, 279 p. (Akademiya nauk SSSR. Kommisiya po problemam Severa).

Editorial Board: Andreyev, A. I., Belov, M. I., Burkhanov, V. F., Yefimov, A. V. (Reps. Ed.). Chernenko, M. B. (Deputy Resp. Ed.) and Shcherbakov, D. I.; Ed.: Vorontsova, A. I.; Tech. Ed.: Kosheleva, S. M; Map. Ed.: Mal'chevskiy, G. N.

PURPOSE: The book is intended for readers interested in the Soviet Arctic.

COVERAGE: The present volume, the second of a series of three, is a collection of 27 articles by various authors presenting an historical account of the exploration and economic development of the Soviet North. A small part of the book is devoted th Arctic areas beyond the confines of the Soviet Union. The aim of the book is to contribute to an understanding of the physical geography, cartography, ethnography, and economy of the Soviet North through a historical survey of these factors, A large number of authors, exploreres, scientists, travellers, pilots, navigators, etc., are cited.

CHUPAK, S. A.

Organization of underground haulage in the producing shaft

Moskva, Ugletekhizdat, 1952. 99 p.

organization of miner ground maurage in one producting shart

(54-18334)

TN336.C5

CHUMAK, S.A.

KEYYE, R. [Coeuillet, R.]; PRISYAZHNIKOV -VAL', V.S.[translator];
-GHUMAK. S.A., radaktor; ZAHETSKIY, S.Ye., redaktor izdatel stva;
ZAZUL'SKAYA, V.F., tekhnicheskiy redaktor

[Cyclic study of percussive drilling. Translated from the French] Issledovanie tsikla udarnogo bureniia. Perevod s frantsuzskogo V.S. Prisiazhnikova-Val'. Pod red. S.A. Chumaka. Moskva, Ugletekhizdat, 1956. 85 p. (MLRA 10:4) (Boring)

CHUMAK, S.A., dotsent

Selecting new types of conveyors for horizontal workings. Ugol. prom. no.3:67-71 My-Je 62. (MIRA 18:3)

1. Donetskiy politekhnicheskiy institut.

CHUMAK, S.A., kand tekhn nauk

Selecting locomotives for the airways of Donets Basin mines.
Ugol' Ukr. 6 no.11:29-30 N '62. (MIRA 15:12)

1. Donetskiy politekhnicheskiy institut.
(Donets Basin-Mine Kailroads)

CHUMAK, Viktor, tokar!

Multipurpose cutting tool. Znan.ta pratsia no.1:30 Ja '60. (MIRA 13:5)

1. Ther kovskiy turbinnyy savod im. S.M.Kirova. (Metal-cutting tools)

CHUMAK, V.I. WENNESS PROPERTY OF THE PERSON

Extinction of orientation reflexes in kittens soon after birth. Zh. wys. nerv. deiat. 5 nc.6:863-872 N-D '55. (MIRA 9:3)

1. Laboratoriya sravnitel'nogo ontogeneza nervnoy sistemy Instituta fiziologii AMN SSSR.

(ORIENTATION.

extinction of orientation sucking reflex stimulated by olfactory factors in cats early after birth)

(REFLEX.

extinction of orientation sucking reflex stimulated by olfactory factors in cats early after birth)

CHUHAK, V. I.

Chumak, V. I.

"Conditioned reflexes to the relationship of stimuli in goldfish, pigeons, and rabbits." "oscow State Order of Lenin and Order of Labor Red Banner U imeni M. V. Lomonosov. Soil biology Faculty. Moscow, 1956. (Dissertation for the degree of Candidate in Biological Sciences)

Knizhnaya letopis! No. 35, 1956. Moscow

CHUMAK, V.1.

USSR/Human and Animal Physiology. Nervous System. Higher Nervous Activity. Behavior.

T-10

Abs Jour: Ref Zhur-Diol., No 12, 1958, 56023.

Author : Churak, V.I.

* Inst

: The Influence of Stimulants Upon the Conditioned Title

Reflexes in Goldfishes, Pigeons, and Rabbits.

Orig Pub: Zh. vyssh. nervn. deynt-sti, 1957, 7, No 1, 114-125.

Abstract: Positive conditioned reflexes when accepting food, which act upon visual stimulation (CRAS) according to the size of the area, were developed in rabbits, pigeons, and goldfishes (at a separate presentation of positive and differentiated objects, i.e., on

the basis of temporary connections with the absolute

: 1/4 * KAFFEDRA FIZIOLOGII VYSSHEY NERVNIY DEYATEL'NOSTI MOSKOPSKOGE

GOSUBARTVENNOSO UNIVERSITETAL. Card

USSR/Human and Animal Physiology. Nervous System. Higher Nervous Activity. Behavior.

T-10

Abs Jour: Ref Zhur-Diol., No 12, 1958, 56023.

indicator of the stimulants). Such development occurred after 3-13 presentations and became strenghtened after 8-38 presentations. Differentiation developed faster and was more stable in rabbits and pigeons than in goldfishes. CRAS were noted in those cases where an usual stimulant followed an unusual stimulant (large or small), which occurred after an interval of 1-1½ minutes in fishes, and after an interval of of 1-2 minutes in pigeons and rabbits. Larger or smaller intervals produced a reaction development with respect to the absolute stimulative indicants. When a simultaneous presentation of positive and of differentiated objects was executed, positive conditioned reflexes of visual

Card : 2/3

163

USSR/Human and Animal Physiology. Nervous System. Higher Nervous Activity. Dehavior.

T-10

Abs Jour: Ref Zhur-Biol., No 12, 1958, 56023

stimulation developed after 110-180 presentations and have become strengthened after 200-210 presentation in fishes, in pigeons 40-80 presentations were necessary and strengthening occurred after 60-90 presentations, and in rabbits 40-70 presentations were required and strengthening was achieved after 90-110 presentations. In simultaneous presentations of positive and differentiated stimulants (CRAS were developed in separate presentations), CRAS became apparent and were strengthened immediately or after a few appositions. CRAS were generalized as to the area as well as to the form of the objects, and were retained upon presentation of

Card : 3/4

USSR/Human and Animal Physiology - Nervous System. Higher Nervous Activity. Behavior.

T IC

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 32206

Author

: Chumak, V.I.

≯ Inst Title : On the Problem of the Mechanism of Conditioned Reflexes in

Relation to Stimuli.

Orig Pub

: Zh. vyssh. nervn. deynt-sti, 1957, 7, No 1, 126-134.

Abstract

: In fish, pigeons and rabbits, the food getting conditioned reflexes (CR) are developed first in a single stimulator, and later in relation to two stimulators used simultaneously, of which one was strengthened during an isolated presentation, while the second one was not. Then there occurred an alternation of the signal value of the stimuli. CR were successfully extinguished in both separate stimuli, with persistence of CR in relation to them more easy in rabbits and with difficulty in pigeons. In fish, the differentiatin * DEAT. OF PHYSICLEGY OF HIGHER NEAV. ACTIVITY, MOSCOW STATE UNIVERSITY, MOSCOW.

Card 1/2

CHUNAN, V. I

Effect of a break in experiments with conditioned response in the crucian carp, pigeons, and rabbits. Nauch, dokl. vys. shkoloy; biol. nauki no.1:93-95 '58 (MIRA 11:8)

1. Predstavlena kafedroy fiziologii vysshey nervnoy deyatel¹nosti Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

(CONDITIONED RESPONSE)
(CARP)
(PIGEONS)

(RABBITS)

KRYLOV, O.A., CHUMAK, V.I.

Problems in the physiology and pathology of the human and animal nervous system during the early stages of development. Shureys. nerv. deiat. 8 no.5:786-790 S-0 158 (MIRA 12:1)

(NERVOUS SYSTEM)

CHUMAK, V.I.

1. Kafedra fiziologii vysshey nervnoy deyatel'nosti Moskovskogo universiteta imeni M.V. Lomonosova.

(Conditioned response) (Fishes--Habits and behavior)

PARIN, V.V., otv. red.; VOLOKHOV, A.A., zam. otv. red.; NIKITINA, G.M., red.; PILIPENKO, V.I., red.; GHUMAK, V.I., red.; EYKOV, V.D., red.; LYUDKOVSKAYA, N.I., tekhn. red.

[Problems in the physiology and pathology of the central nervous system of man and animals in ontogenesis]Voprosy fiziologii tsentral'noi nervnoi sistemy cheloveka i zhivotnykh v ontogeneze; sbornik nauchnykh nabot. Moskva, Medgiz, 1961. 223 p. (MIRA 15:8)

1. Akademiya meditsinskikh nauk SSSR, Moscow. (NERVOUS SYSTEM)

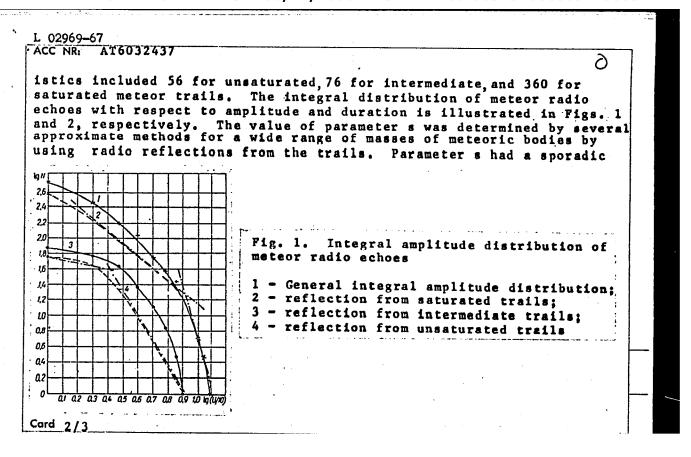
MARKOSYAN, Akop Artashesovich; CHUMAK, V.I., red.

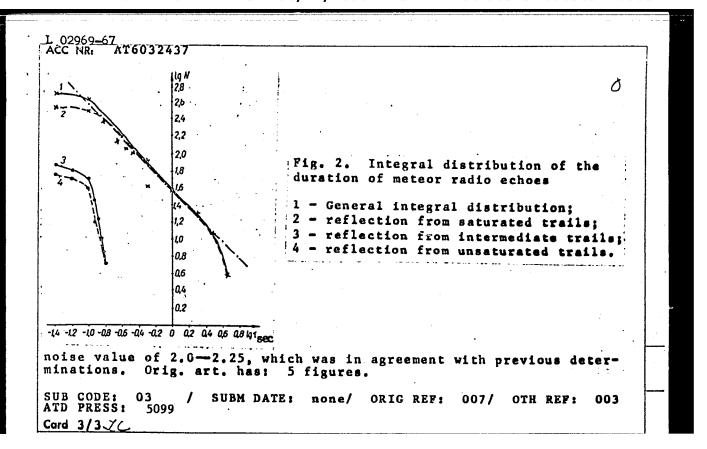
[Physiology] Fisiologiia. 5. izd., perer. Moskva, Meditsina, 1965. 409 p. (MIRA 18:4)

YUSIM, F.M. [IUsym, F.M.]; LEYZEROVICH; M.Ya.; CHUMAK, V.S.; BRENER, L.G., [Brener, L.H.]

Proposals of the efficiency premoters of the Odessa Shoe Factory No.2. Leh.prom. no.3:59-61 Je - Ag *62. (MIRA 16:2) (Odessa-Shoe manufacture-Technological innovations)

02969-67 EWT(d)/FSS-2/EWT(1)/EWT(m)/EEC(k)-2 GW/WS-2 AT 6032437 SOURCE CODE: UR/3133/66/000/009/0157/0161 AUTHOR: Fialko, Ye. I.; Moysya, R. I.; Kolomiyets, G. I.; Mel'nik, V. I.; Chumak, Yu. V. 38 ORG: Kiev State University (Kiyevskiy gosudarstvennyy universitet) TITLE: Statistical characteristics of radio echoes from sporadic meteors SOURCE: AN UkrSSR. Mezhduvedomstvennyy geofizicheskiy komitet. Informatsionnyy byulleten, no. 9, 1966. Geofizika i astronomiya, 157-161 TOPIC TAGS: radic echo, meteor trail ABSTRACT: The results of radar observations conducted on 29 October 1964 during a period in which intensive meteor streams were absent were used to construct statistical characteristics of the distribution of meteor radio echoes with respect to amplitude and duration. The radar system used had the following basic parameters: $\lambda = 8.7$ m; pulse power, 10 kw; pulse period, 10 μ sec; pulse repetition rate, 500 pulse/sec; sensitivity, $\frac{1}{2}$ 5 μ v. The four-element receiving and transmitting Yagi antennas were located at height $h = \lambda/2$ above the ground. The 492 radio echoes selected for constructing the statistical character-Card 1/3





STRELKOV, M.I.; CHUMAK, Z.P.

Electron microscope study of C3A hydration. Doj. AN URSR no.12:1595-1600 '65. (MIRA 19:1)

1. Kharkivs'kyi prombud NDIproyekt.

Sov/68-59-10-8/24

AUTHORS:

Semisalov, Ya.D., Chumak, Ye.M., and Romanovskiy, V.A.

TITLE:

Some Experience in Operating Coke Ovens Fired with

a Rich Gas

PERIODICAL: Keks i khimiya, 1959, Nr 10, pp30-31 (USSR)

ABSTRACT:

Gorlovka coke ovens were designed for firing with a mixture of coke oven and a rich gas (15-20%). The nature of the rich gas is not specified. There were individual periods during which the proportion of rich gas amounted to 90%, which, however, has no deleterious effect on the uniformity of temperature distribution in the ovens, and the temperature of the under roof space was maintained on a required level (table 1). Ovens were fired with an excess air coefficient of 1.3-1.5 at a suction in the regenerator on the ascending stream 3 - 3.2mm H20. During 1956-1958 an increased proportion of gas coal (from 14% to 26%)

Card 1/2

was incorporated into the blend. For this reason the temperature in the heating flues was raised.

Scv/68-59-10-8/24

Some Experience in Operating Coke Ovens Fired with a Rich Gas

The above measures had no noticeable effect on the quality of the coke (table 2). There are $\bf 3$

tables.

Gorlovskiy koksokhimicheskiy zavod (Gorlovka Coking Works) ASSOCIATION:

Card 2/2

BALL, A.N.; CHUMAK, Yu.I., agronom

Signal station on the "Biruintsa" Collective Farm. Zashch.rast. ot vred.i bol. 7 no.5:48-49 My '62. (MIRA 15:11)

1. Starshiy agronom Moldavskiy respublikanskoy stantsii zashchity rasteniy (for Ball). 2. Kolkhoz "Biruintsa" ("Pobeda") Strashenskogo rayona, Moldavskaya SSR (for Chumak).

(Moldavia---Plants, Protection of)

Card 1/2

L 3295-66 FSS-2/EWT(1)/EWA(d) GS/GW/WR ACCESSION NR: AT5024189 UR/0000/65/000/000/0057/0064 AUTHOR: Fialko, Ye. I.; Bayrachenko, I. V.; Chumak, Yu. V.; Moysya, R. Mel'nik, V. I. 55 TITLE: Statistical characteristics of meteor radio echoes during the 1963 Geminid shower SOURCE: AN UkrSSR. Fizika komet i meteorov (Physics of comets and meteors). Kiev, Izd-vo Naukova dumka, 1965, 57-64 TOPIC TAGS: radio echo, meteor trail, reflected signal, radar echo, radar meteor observation 24,55 12,55 ABSTRACT: Statistical characteristics of meteor radio echoes during the 1963 Geminid shower were studied experimentally. The radar equipment used had the following parameters: $\lambda = 9.59$ and 6.49 m; power, 20 kev; prf, 500 pps; and pulse duration, 10 usec. In all, 198-207 meteor radio edoes were used to determine the distribution of radio echoes with respect to duration, amplitude, time interval between echoes, and distance. On the basis of the results obtained, the following conclusions were reached: 1) Distributions of meteor radio echoes: with respect to duration at $\lambda = 9.59$ m and $\lambda = 6.49$ m are practically identical

L 3295-66 ACCESSION NR: AT5024189

in the region of long durations (>1 sec) and differ slightly in the region of short durations. 2) In the distribution of amplitudes, three groups of reflections are distinguished - stable, intermediate, and unstable. The distribution of intermediate radio echoes is similar to that of stable reflections. 3) Distribution of intervals between appearances of meteor reflections has an exponential character. Orig. art. has: 4 figures and 5 formulas.

ASSOCIATION: none

SUBMITTED: 21May65 ENCL: 00

SUB CODE: AA, EC

NO REF SOV: 003

OTHER: 002

ATD PRESS

L 3291-66 ENT(1)/FCC/ENA(d)/EWA(h) GS/GW-ACCESSION NR: AT5024190

UR/0000/65/000/000/0065/0067

AUTHOR: Fialko, Ye. I.; Bayrachenko, I. V.; Chumak, Yu. V.

TITLE: Some results of the utilization of intermediate-type trails for measuring the electron density of a meteor trail.

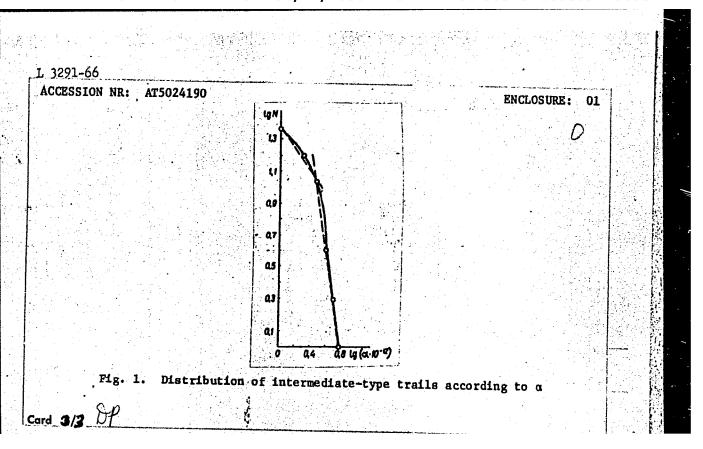
SOURCE: AN UkrSSR. Fizika kome: 1 meteorov (Physics of comets and meteors). Kiev, Izd-vo Naukova dumka, 1965, 65-67

TOPIC TAGS: meteor trail, radar meteor observation, radio echo, electron density, mathematic method

ABSTRACT: Linear electron density α of ionized meteor trails was determined from radar observations of intermediate-type trails at $\lambda=9.59$ m. The observations were conducted by Kiev State University in 1963. The method is based on the dependence of intermediate-type radio echoes on α . The distribution of α was determined within the range of 10^{12} to 5×10^{12} el/cm. Distribution of intermediate-type trails according to α is shown in Fig. 1 of Enclosure, where n is the number of trails in which electron density α exceeded a given value. Orig. art. has: 1 figure and 1 formula.

ASSOCIATION: none

L 3291-66 ACCESSION NR: AT5024190		SUB CODE: AAJEC
SUBMITTED: 21May65	encl: 01	ATD PRESS 4113
NO REF SOV: 002	OTHER: 001	
	강하는 경험하다 이 등 이 생각이다. 등 기가 있다. 1일 등 기가 하는 것이 하는 것이 되었다. 2일 급하는 기를 보는 것이 하는 것이 되었다.	
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Card 2/3		



STRELKOV, M.I., kand.tekhn.nauk; CHUMAK, Z.P., inzh.

Electron microscope studies of the form and internal structure of Ca(OH)₂ separated out from supersaturated solutions. Stroi. mat. 8 no.12:36-38 D '62. (MIRA 16:1) (Lime) (Electron microscope)

STRELKOV, M.I.; CHUMAK, Z.P.

On pseudoforms of hydration of binders observed by the electron microscope. Dop. AN URSR no.8:1076-1080 '63. (MIRA 16:10)

1. Yuzhnyy nauchno-issledovatel'skiy institut promyshlennogo stroitel'stva. Predstavleno akademikom AN UkrSSR P.P. Budnikovym. (Binding materials) (Hydration) (Electron microscopy)

LEYZEROVICH, Grigoriy Yakovlevich; BABINA, Irina Vladimirovna; SEREBRENNIKOVA, Bafir Yakovlevna; CHUMAK, Z.V., inzh., retsenzent; POPOV, N.A., inzh., retsenzent; TSETLIN, V.M., red.; MISHARINA, K.D., red.izd-va; ISLENT YEVA, P.G., tekhn.red.

[Roasting mine concentrates in a fluidized bed] Obshig tsinkovykh kontsentratov v kipiashchem sloe. Pod red.
Leizerovicha. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 222 p. (MIRA 12:8)

(Zinc--Metallurgy)

LOSKUTOV, Fedor Mikhaylovich, prof.; TSEYDLER, Aleksandr Al'bertovich, prof.; CHUMAK, Z.V., red.; LUTSKAYA, G.A., red.izd-va; MIKHAYLOVA, V.V., tekhn. red.

[Calculations on the metallurgy of heavy nonferrous metals]
Raschety po metallurgii tiazhelykh tsvetnykh metallov. 2. izd.,
peresm. i dop. Moskva, Metallurgiizdat, 1962. 591 p.

(MIRA 16:1)

(Nonferrous metals-Metallurgy)

CHUMAKIN, M.Ye.

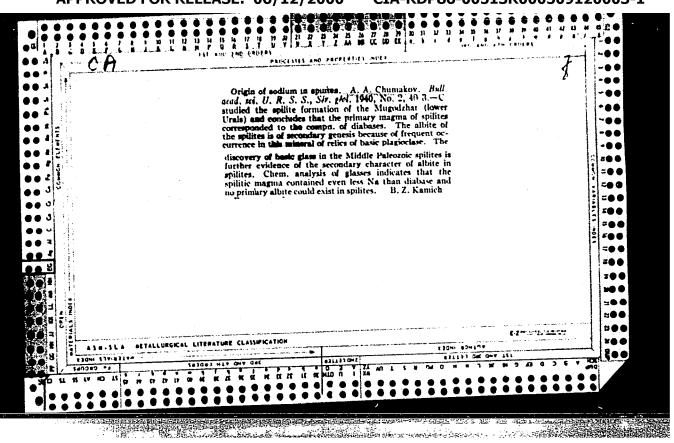
Generalized resolvents of an isometric operator. Dokl. AN SSSR 154 no.4:791-794 F 164. (MIRA 17:3)

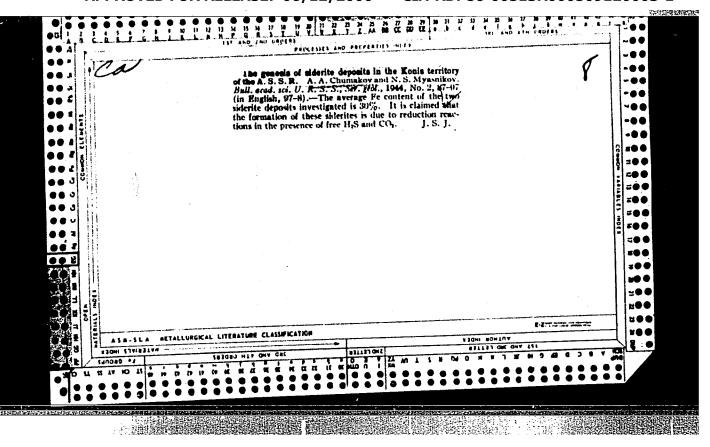
1. Ul'yanovskiy gosudarstvennyy pedagogicheskiy institut im. Ul'yanova. Predstavleno akademikom P.S. Novikovym.

VAVILOV, L.; IGNAT'YEV, V.; CHUMAKOV, A.; USHAKOV, A.

Useful undertaking. Zashch. rast, ot vred. i bol. 5 no. 8:60

Ag '60. (MIRA 13:12)





CHUMAKOV, A.	A.	IN IIOS
:	USSR/Geology - Ore Deposits 1 May 1947 Thorium Ore Rare Earths	
	"A New Lode of 'Stenstrupin' in the Lovozero Tundras," A A Chumakov, I V Bel'kov, I D Batiyeva, 4 pp	
	"Dok Akad Nauk USSR Nov Ser" Vol LVI, No 4	
	'Stenstrupin' is described as a thoro-titano-silicate hydrate of rare earths and manganese. It is known only in southern Greenland and the above area.	
	1768	
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CHUMAKOV, A. A.

PÅ 60^T26

USSR/Geology Petrology Jul 1947

"Petrology and Metallogenesis of Alkaline Granites in the Kola Peninsula," A. A. Chumakov, Kola Base, Acad Sci USSR, Kirovsk, 22 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LVII, No 1

Describes petrological research carried out in 1946 by Kola Base of Academy of Sciences, USSR on Riev alkaline granites, which established nature of granites and their role and place in geological history. Submitted by Academician D. S. Belyankin, 26 Dec 1946.

60**T**26

"APPROVED FOR RELEASE:	06/12/2000	CIA-RDP86-00513R000509120003-1
AFFROVED I OR RELEASE.	00/ 12/ 2000	CIA-KDF00-00313K000303120003-1

Nov 1947 of Urtite Horizontals in the Luyavrurt Alkaline Rocks Chumakov, Kola Base, Academy	"Dok Ak Nauk" Vol IVIII, No 5 This is another article which sheds some light on the nature and origin of the stratified structure of the Alkaline rocks of the Lovozero rock intrusions. Describes particularly the genesis of the urtites, which have been found in the laminated complex, and valid have the appearance of multistaged inclined conformating forms.	Superioral by Academician D. S. Belyan.
	"Dok Ak Nauk" Vol LVIII, No 5 This is another article which sheds some light on nature and origin of the stratified structure of Alkaline rocks of the Lovozero rock intrusions. Scribes particularly the genesis of the urtites, which have been found in the laminated complex, which have been found in the laminated complex, which have been found in the laminated complex, and the appearance of multistaged inclined confuse have the appearance of multistaged inclined confuse horizons.	oy Academica
USER/Geology Rock Formation Stratification "Reasons for the Genesis Laminated Complex of the (Kola Peninsula)," A. A. of Sciences of the USER,	unk" Vol IVIII, No 5 nother article which s t origin of the strati- coke of the Lovozero rticularly the genesi- been found in the la Ey (Contd) ppearance of multistages show that the langest of multistages	1947
USER/Geology Rock Fo Rock Fo Stratif **Reasons for Leminated Co Leminated Co Cola Penins Cola Penins Cola Penins		CHUMAKOV, A. A.

PA 43/43T27

Describes research on alkaline granites in the Zapadnyve Keyvi region of Kola Peninsula and gives details of their geologic structure and properties. Submitted by Academician D. S. Belyankin, I Dec 1947.

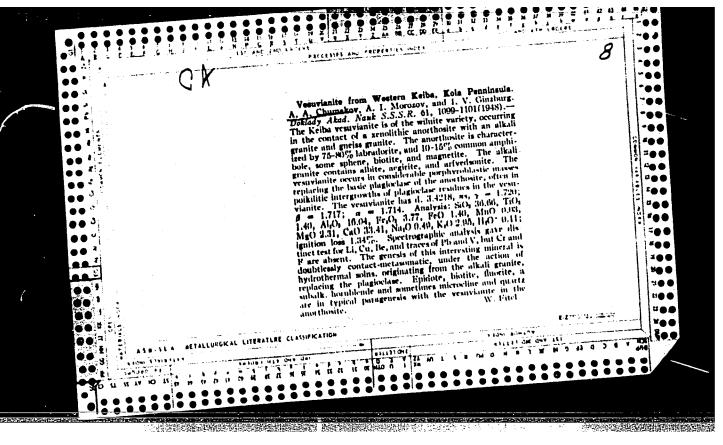
"Dok Akad Mauk SSSE, Move Ser" Vol LIX, No h

"Origin of Alkaline Granites in Kola Peninsula," B. M. Kupletskiy, A. A. Chumakov, Kola Sci Res Base imeni S. M. Kirov, Acad Sci USSR, 3 pp

14p 1948

USSR/ Geology

CHUMAKOV, A. A.

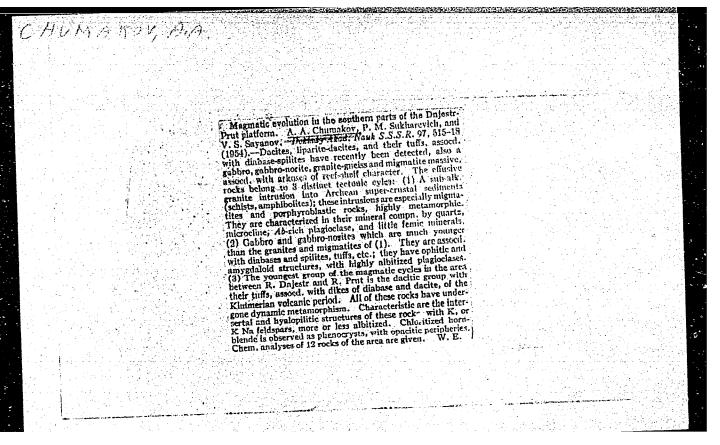


CHUMAKOV, A.A.

Origin of the Kosoutsy sandstones in Moldavia. Dokl.AN SSSR 94 no.2:319-322 Ja 54. (MLRA 7:1)

1. Moldavskiy filial Akademii nauk SSSR.

(Moldavia--Sandstone) (Sandstone--Moldavia)



CHUMPROUT A.A.

USS...

Chemical and mineralogical composition and classification of alkaline granites. A A Chumakov. Dorlady Akad Nata & N. 18. 98, 497, 97 P.S.A. The relatively young over of typical aik, granites (post-Variscan or even younger, accurring in East Kazakhstan and Baltakar is striking, while Pulsozone and Archean rocks of this class (e.g. nepheline sventes) are very rare. In Transbuskal, Arsen'ev (1947) has demonstrated the relation of the alk granites to Mesocoic orogena foldings, and similar occurrences in the North area of the U.S.R. are observed along the boundaries of old cryst, basements with geologically young foldings. The chem, criterion of relatively increased contents in Raid in alk granites is not sufficient for a classification of these reaks, the one articles of Nat-fell) pyrogenes and ampendous is much more characteristic, as is the relatively high content in heart of the orac characteristic may a raintent from the many attention to each characteristic may a raintent from the many attention to each characteristic may a raintent from the many attention to each characteristic may a raintent from the many attention to each characteristic may a raintent from the many attention to each characteristic may a raintent from the many attention to each characteristic may be a raintent from the many attention. In the trainingular projections, however, the clusters for the alk, and the normal granites are almost ingular projections of Scheirer and Bowen. Therefore, C. defines alk, granites only by mineralogical facts, e.g. the associa, of albute and aegirite, or of albute-liquelase and Na-Fe-amphibioles. If E.O. Na₂O, biotite also appears in the associa, If plagioclase is S. K-feldspar, the aegirite is replaced by artivedsonite and Fe-rich lastingsite. Only a mineralogical classification, and not the calcu, of chem. moduli from bulk analyses is able to give a clear understanding of the generic relations of alk, granites.

CHUMAKOV, A.A.; SUKHAREVICH, P.M.

Tectonic-magmatic phenomena observed in the southern part of the Dniester-Prut Watershed Plateau. Dokl.AN SSSR 108 no.3:538-540 My 156. (MLRA 9:8)

1. Kishinevskiy gosudarstvennyy universitet. Predstavleno akademikom N.S. Shatskim.
(Dniester Valley--Geology, Structural)(Prut Valley--Geology, Structural)

CHUMAKOV A.A.

Formation of rapakivilike and alkaline granitoids following interaction between granophyre magma and diabases. Dokl. AN SSSR 110 no.6:1073-1076 0 56. (MLRA 10:2)

1. Kishinevskiy gosudarstvennyy universitet. Predstavleno akademikom D.S. Korshinskim.
(Granite) (Diabase)

20-2-46/60

AUTHORS:

Chumakov, A. A., Ginzburg, I. V.

TITLE:

A New Rare Metal Geochemical Province on the Kola Peninsula (Novaya redkometal'naya geokhimicheskaya provintsiya na Kol'skom poluostrove)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 2, pp.400-403 (USSR)

ABSTRACT:

The authors of the paper under review have singled out the Kola Peninsula as a special geochemical province, mainly because of the cesium-lithium deposits found there. Previously the Kola Peninsula had been considered to be a part of the Fennoscandic province; this assumption was based on the research work done by Fersman. The rare elements, in widely scattered deposits, are genetically connected with many pegmatite fields, which are of practical value, particularly lithium pegmatites and the numerous accompanying associations of rare metals. The characteristic feature of the new province is the existence of an alkaline granitic and of a nepheline-syenite mineral complex, furthermore the occurrence

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20-2-46/60

A New Rare Metal Geochemical Province on the Kola Peninsula

of granitoid magmata of the palingenous-metasomatic petrogenesis, and a further development of granitization and alkaline metasomatosis. For a long time it was not possible to discover any very important and characteristic mineral associations or elements, as, for instance, Li, Ce, Rb, Be, Ta and Ni, except where they were combined with Paleozoic subvolcances Khibiny and Luyavrurt Fasman's prognosis that accumulations of Li and Ge could be expected only in combination with colder pegmatite geophases, the occurrence of which in crystalline shields was less probable, soon was confirmed by the authors of the present paper. Fersman based himself on analogous cases in Sweden and Canada (Manitoba). Altogether, a whole layer, an uninterrupted pegmatite field was discovered, bearing the name Voron's -Poros-Ozero. As a rule, the pegmatite field is situated within a deeply metamorphosed mass of volcanogenous and salimentary origin, and in partly amphibolic and albitic gabbro-labradorites. The entire pegmatite mass is dislocated in a complicated way, and steeply shifted in the direction of the centrally axis structure of the Kola Peninsula. A repeated metamorphism, as well as intense contactmetasomatic processes connected with granitoid intrusions and pegmatites, and also phenomena

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20-2-46/60

A New Rare Metal Geochemical Province on the Kola Peninsula

of magnetic replacement, have almost completely destroyed the original structures of the ore-bearing minerals. Investigations of the new lithium deposits on the Kola Peninsula show that, as compared to well known similar deposits in the USSR and abroad, it represents, viewed from the standpoint of the conditions of its geological position and with respect to some mineralogical and geological peculiarities, a type of the complex rare-metal pegmatite field of regional importance. In the Fersman's classification it corresponds to a rare-metal province, particularly of lithium. There are 5 Soviet references.

ASSOCIATION: Kishinev State University imeni S. M. Kirov (Kishinevskiy gosudarstvenny universitet im. S. M. Kirova) Kola Branch, AB USSR (Kol'skiy filial Akademii nauk SSSR)

PRESENTED:

November 16, 1956, by D. I. Shcherbakov, Member of the Academy

Card 3/4

20-2-46/60

A New Rare Metal Geochemical Province on the Kola Peninsula

SUBMITTED:

October 15, 1956

AVAILABLE: Library of Congress

Card 4/4

GRIGORYAN, A.V.; ZHDANOV, B.G.; CHUMAKOV, A.A.; KIPRENSKIY, M.V.

Appearance of a sarcome at the site of a throphic ulcer and after gumshot wounds. Khirurgiia 36 no.11:122-125 H 160.

(MIRA 13:12)

1. Is kafedry obshehey khirurgii (sav. - prof. V.I. Struchkov)

I Moskovskogo ordena Lenina meditsinskogo instituta inemi I.M.

Sechenova i patologosnatomicheskogo otdeleniya (sav. - deystvitel'nyy chlen AMM SSSR prof. I.V. Davydovskiy) bol'nitsy
imeni Medsantrud (glavnyy vrach A.P. Timofeyeva).

(ULCER) (GUMSHOT WOUNDS) (TUMORS)

CHUMAKOV, A. A.; YAGODOVSKIY, V. S. (Moskva)

Hyperparathyroidism in combination with multiple adenomatoses of the endocrine glands. Arkh. pat. no.8:76-80 '61. (MIRA 15:4)

1. Iz patologoanatomicheskogo otdeleniya (zav. - deystvitel'nyy ohlen AMN SSSR prof. I. V. Davydovskiy) bol'nitsy No. 28 imeni Medsantrud (glav. vrach A. P. Timofeyeva)

(PARATHYROID GLANDS-DISEASES) (ENDOCRINE GLANDS-TUMORS) (ADENOMA)

CHUMAKOV, A. A.; YUDINA, V. S. (Moskva)

Supplementary peritoneal sac; a developmental defect of the peritoneum. Arkh. pat. no.6:79-81 '62. (MIRA 15:7)

1. Iz kafedry patologicheskoy anatomii (zav. - deystvitel'nyy chlen AMN SSSR prof. I. V. Davydovskiy) II Moskovskogo meditsinskogo instituta imeni N. I. Pirogova (dir. - dotsent M. G. Sirotkina)

(PERITONEUM-ABNORMITIES AND DEFORMITIES)

CHUMAKOV, A.A.

The Pre-Cambrian of Moldavia; recent data on the patrology of the charnokite series. Dokl. AN SSSR 147 no.1:195-198 N '62. (MIRA 15:11)

1. Kompleksnaya geologo-tematicheskaya partiya Upravleniya geologii i okhrany nedr pri Sovete Ministrov Moldavskoy SSR.

(Moldavia--Petrology)

Chumakov, A.A. 70-5-29/31 AUT ORS: Chumakov, A.A., Sil'vestrova, I.M. and Aleksandrov, K.S. The Dielectric, Elastic and Piezo-electric Properties of TITIN: Single Crystals of Benzophenone (Dielektricheskiye uprugiye i p'yezoelektricheskiye svoystva monokristallov benzofenona) PERIODICAL: Kristallografiya, 1957, Vol.2, No.5, pp. 707-709 (USSR). ABSTRACT: Of the four modifications of crystalline benzophenone (C6H5)2CO the one studied was the stable orthorhombic one belonging to the symmetry group 2:2. The specimens were made from large crystals (200-300 cm²) prepared from acetone or carbon tetrachloride solution. The material had a density of 1.219 g/cm² at 20 °C and a m.p. of 47.0°6. Dielectric constant measurements were made at 10² and 10⁶ c/s and at a field strength of 5-10 V/cm. $\varepsilon_{11} = 4.0 \pm 0.05$, $\varepsilon_{22} = 4.1 \pm 0.05$, $\varepsilon_{33} = 3.7 \pm 0.05$ $\tan \delta = (6 \pm 0.5) \times 10^{-5}$ The dielectric strengths (in kV/mm) were found to be : $E_x = 28 \div 30 \pm 3$, $E_y = 22 \div 25 \pm 3$, $E_z = 40 \div 50 \pm 4$ The elastic moduli were found to be (in 1010 dynes/cm2) Jard1/4

70-5-29/31

The Dielectric, Elastic and Piezo-electric Properties of Single Crystals of Benzophenone.

$$c_{11} = 10.70 \pm 0.15$$
 $c_{22} = 10.00 \pm 0.15$ $c_{33} = 7.10 \pm 0.04$ $c_{44} = 2.03 \pm 0.01$ $c_{55} = 1.55 \pm 0.01$ $c_{66} = 3.53 \pm 0.03$ $c_{23} = 3.21 \pm 0.13$ $c_{31} = 1.69 \pm 0.08$ $c_{12} = 5.50 \pm 0.20$

Resonance and anti-resonance frequencies were measured for three slices and the piezo-moduli were calculated from:

$$d_{ik} = \frac{\pi}{2} \frac{1}{f_R \ell} \left(\frac{\varepsilon_{ik} \Delta f}{4\pi \ell f_R} \right)^{1/2}$$

where f_R = resonance frequency, Δf = f_a - f_R (f_a = anti-resonance frequency), ϵ_{ik} = dielectric susc., γ = length, ρ = density,

Card2/4

The Dielectric, Elastic and Piezo-electric Properties of Single Crystals of Benzophenone.

$$d_{14} = 3.7 \pm 0.1 \times 10^{-7}$$
 c.g.s. units $d_{25} = 0.6 \pm 0.02$ $d_{36} = 6.1 \pm 0.1$.

The coefficients of electromechanical coupling K were calculated from:

$$k = \frac{\pi}{2} \left(\Delta f / f_R \right)^{1/2} \text{ as } k_{XY} t_{45^0} = 7.5\%$$

$$k_{XX} t_{45^0} = 3.8\%$$

$$k_{ZX} t_{45^0} = 16.0\%$$

XYt45° = X perpendicular to slice, length at 45° to Y and Z and electrodes on face perp. to X.

Card 3/4

70-3-3-32/36 AUTHORS: Sil'vestrova, I.M., Aleksandrov, K.S. and Chumakov, A.A.

TITLE: The Growth of Crystals of Terpene Monohydrate and Their Elastic and Piezoelectric Properties (Vyrashchivaniye kristallov terpin-monogidrata i ikh uprugiye i p'yezoelektricheskiye svoystva)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 3, pp 386 - 387 (USSR).

Crystals of cis-terpene monohydrate [C10H18(OH)2.H2O] ABSTRACT: have mp. 116 °C and dobs = 1.11 g/cm³.

A water thermostat of Heppier's type was used to grow crystals of 30 = 50 g from a solution in alcohol and acetone cooled 1 - 2 below the saturation point. Crystals (morphologically) belong to the class 2.m (rhombopyramidal). The principal dielectric constants at 1 Mc/s and a field of 5-10 V/cm were found to be $e_{11} = 2.6 \pm 0.05$, $e_{22} = 2.8 \pm 0.05$, $e_{33} = 3.2 \pm 0.05$. The elastic moduli c_{ik} were measured by an impulsive ultrasonic method as (x 10 dynes/cm)

Card 1/2

70-3-3-32/36

The Growth of Crystals of Terpene Monohydrate and Their Elastic and Piezoelectric Properties

$$c_{11} = 12.5 \pm 0.2$$
, $c_{44} = 2.43 \pm 0.05$ $c_{23} = 4.10 \pm 0.2$
 $c_{22} = 9.9 \pm 0.2$, $c_{55} = 2.23 \pm 0.04$ $c_{31} = 6.20 \pm 0.3$
 $c_{33} = 15.3 \pm 0.2$, $c_{66} = 3.46 \pm 0.06$ $c_{12} = 3.80 \pm 0.4$

$$c_{22} = 9.9 \pm 0.2$$
, $c_{55} = 2.23 \pm 0.04$ $c_{31} = 6.20 \pm 0.3$

$$c_{33} = 15.3 \pm 0.2$$
, $c_{66} = 3.46 \pm 0.06$ $c_{12} = 3.80 \pm 0.4$

For the piezoelectric properties the resonant and anti-resonant oscillation frequencies of 6 blocks or plates were

measured giving (in cgsu
$$\times 10^{-8}$$
) $d_{31} = -6.5 \pm 0.1$

$$d_{32} = 10.6 \pm 0.1$$
, $d_{33} = 6.6 \pm 0.3$, $d_{15} = 13.0 \pm 0.2$, $d_{2\mu} = 17.3 \pm 0.2$.

There are 1 figure and 2 references, 1 Soviet and 1 German.

ASSOCIATION: Institut kristallografii AN SSSR

(Institute of Crystallography, Ac.Sc. USSR)

SUBMITTED: December 3, 1957

Card 2/2

SOV/70-3-4-12/26

AUTHORS: Chumakov. A.A. Sil'vestrova, I.M. and Aleksandrov, K.S.

TITIE: Growing Crystals of 1-ramnose Monohydrate and the

Investigation of their Dielectric, Piezoelectric, and Elastic Properties (Vyrashchivaniye kristallov 1-ramnozy

monogidrata i issledovaniye ikh dielektricheskikh,

p'yezoelektricheskikh i uprugikh svoystv)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 4, pp 480-482 (USSR)

ABSTRACT:

Crystals of (-ramnose monohydrate, which belong to the dihedral axial class of the monoclinic system, weighing up to 285 g were successfully grown from aqueous solution in the interval 30-60 with 1-3 C super-cooling and with rapid rotation (200-500 rpm) of the crystal. The m.p. is 126 C and the density 1.471 g/cm³. The dielectric constants at 1 Mc/s and 10 V/cm were found by Q-meter to be e_{11} = 2.6, e_{22} = 2.9, e_{33} = 3.0, e_{13} = 0.15. piezoelectric moduli (Class 2) were found to be (in

c.g.s.u. X 10⁻⁸):

 $d_{21} = +6.0$, $d_{23} = -13.7$, $d_{25} = -16.1$, $d_{22} = -8.7$, $d_{14} = -11.8$, $d_{16} = +4.8$, $d_{34} = -19.8$, $d_{36} = +3.8$.

Card 1/3

Growing Crystals of L-ramnose Monohydrate and the Investigation of their Dielectric, Piezoelectric and Elastic Properties

The greatest electromechanical coupling coefficient, 11.7%, occurs for compressional-extensional oscillations along the Z-axis (piezoelectric modulus d_{23}). This material can work as a transmitter of hydrostatic pressure with a piezomodulus of $d_h = -16.4 \times 10^{-8}$ c.g.s.u. The moduli of elasticity were determined by an ultrasonic impulse method and the velocities of u/s waves in six directions - [100], [010], [001], [110], [011] - were measured. The moduli c_{ik} . 10^{10} dynes/cm² at 20 - 22 °C are (tabulated against ik): (11) 3.82; (22) 2.19; (33) 1.98; (44) 0.537; (55) 0.502; (66) 0.911; (23) 0.888; (31) 1.66; (12) 1.60; (15) -0.03; (25) 0.122; (35) -0.118; (46) 0.022. Resonance and impulse methods agree fairly well.

Card 2/3

SOV/70-3-4-12/26 Growing Crystals of (-ramnose Monohydrate and the Investigation of their Dielectric, Piezoelectric and Elastic Properties

There are 2 figures, 1 table and 7 references, 6 of which are Soviet and 1 German.

ASSOCIATION:

Institut kristallografii AN SSSR

(Institute of Crystallography, AS USSR)

SUBMITTED:

February 14, 1958

Card 3/3

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Enpoy, S. K. Oroving and Ourtain Uses of Corundum Crystals III. SURVETS AND DISCUSSION ARTICLES Enboyriah, To. To. Dislocation in Germanium Crystals (Survey) Elargore, To. S. Main Trends in the Study of Mind Systems: Inorganic Crystals - Organic Admirture (Survey)	Ingulary, A. L. B., and T. Y. Stepacov. Synthesis of Strengure Baits Septemp. L. L. and T. Y. Stepacov. Synthesis of Strengure Baits Septemp. L. L. and T. Y. Stepacov. Synthesis of Strengure Baits Septemp. T. L. A. and T. Y. Stepacov. Synthesis of Strengure Baits Septemp. T. B. Effect of Cooling Conditions on the Creation of Malcomitions on the Creation of Dislocations in Germanium Crystals Bait. L.S., and L. A. Narthiconysm. Omnition-aluminum sulface-hypotystes [Spatials of Overfig of Narothypicals, and some Properties of the Monocrystals) Robertab. S. P. Crystallimation of Germanium on Silicon and Silicon on Germanium	Simplywes, V. A. Studying the Process of Barium Statember Grystal 95 Greeth in a Fased Solution With Barium Chloride Balaysey, L. M., G. S. Balinows, and G. F. Dobrithmonity. Apparatus for Browing Organic Unystale From a balk Balana, S. S. Ber Type of Entoniese Compressor for the Production of Interestly Righ Cas Pressures Entreesily Righ Cas Pressures	Bandton, I. D. Crystallisation of Ed on a month of the Series Series of Series (AFFARACES, METHODS, SERIES AND ASSESSMENT VORS) Bandpar, Das. Crystag of Chiefts and of Other Carbonates Series Series Series Series Series Series Series S	This is the second of two volumes on crystal growth. The first this second of two volumes on crystal contents on crystal or the second of two volumes are true from the contents are contents are contents are contents are contents are contents. The second of the second	ah(2) **print** Print** Print** Print** **Anderdyn** Rock Edital Edital Edital Edital Edital **Anderdyn** Rock Edital Edital Edital **Best Extendion**, tom. 2 (Oxforth of Crystals**, Vol. 2) Rescow, 1959. 295 p. **Eren** ally inserted. 2,000 copies printed. **Eren** ally inserted. 2,000 copies printed. **Eren** ally inserted. 2,000 copies printed. **Eren** Rock Edital Edit

Chumakov, A.A. and Koptsik, V.A. **AUTHORS:**

TITLE: Experiments on the Crystallisation of New Piezoelectric Substances (Opyt kristallizatsii novykh pygzoelektriches-

kikh veshchestv)

PERIODICAL: Kristallografiya, 1959, Vol 4, Nr 2, pp 235-238 (USSR)

ABSTRACT: Full piezoelectric measurements have been made (by others) on only some 30 substances. The authors of this paper have carried out work on the crystallisation from solution of materials selected from 120 dielectric compounds available commercially. Tests for activity were made on powders. About half the materials tried could be grown as large crystals from suitable solvents. 7 standard solvents were tried for each. Seeds were prepared by lowering the temperature of saturated solutions and were later used in growing big crystals in the

dynamic regime (by crystalliser). A table of 49 materials is given with certain physico-chemical data and the

recommended solvent. Solubilites are available in standard tables (ex. A. Seidell). Measurements of the

coefficients of electromechanical coupling of the following Cardl/3

Experiments on the Crystallisation of New Piezcelectric Substances

materials indicated that full determinations of electrical and mechanical parameters would be worthwhile: sodium salt of β-anthraquinone monosulphonic acid; arabinose; acetoxime; barium nitrite; benzophenone; dimethyl glyoxime; cadmium bromide (CdBr₂⁴H₂0); potassium

phthalate; calcium iodate; LiHCO₂·H₂O lithium formate; acetophenone oxime: ramnogo: cul.

acetophenone oxime; ramnose; sulphanilic acid; terpine hydrate; distreonine; urotropine; formaldehyde anhydride (C4H403).

Acknowledgments are made to A.V. Shubnikov, A.N. Izrailenko and G.I. Kozlova. There are 1 table and 12 references, 11 of which are Soviet and 1 English.

Card 2/3

SOV/70-4-2-16/36 Experiments on the Crystallisation of New Piezoelectric Substances

ASSOCIATION: Institut kristallografii AN SSSR (Institute of

Crystallography of the Ac.Sc.USSR)

April 8, 1958 SUBMITTED:

Card 3/3

CHUMAKOV, A. A., CAND MED SCI, "CHARACTER STIPOS OF BLOOD CIRCULATION IN THE LOWER EXTREMITIES UNDER CONDITIONS OF GANGRENE AND IN THE PRESENCE OF ATHEROSCLEROSIS AND "ENDARTERITIS OBLITERANS"." MOSCOW, 1960. (ACAD MED SCI USSR). (KL, 3-61, 236).

483:

CHUMAKOV, A.A.

Features of blcod circulation in the lower extremities in atherosclerosis and "obliterating endarteritis". Arkh. pat. 22 no. 4:63-71 '60. (MIRA 14:1) (ARTERIES—DISEASES) (ARTERIOSCLEROSIS) (LEG—BLOOD SUPPLY)

GRIGORYAN, A.V. (Moskva, Smolenskiy bul'var,d.17,kv.43); ZHDANOV, V.S.;

Some aspects of the pathogenesis of primary cancer of the lungs. Grud. khir. 2 no.3:32-36 My-Je '60. (MIRA 15:3)

1. Iz kliniki obshchey khirurgii (zav. - prof. V.I. Struchkov) lechebnogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova i patologoanatomicheskogo otdeleniya (zav. - deystvitel'nyy chlen AMN SSSR prof. I.V. Davydovskiy) na baze bol'nitsy imeni Medsantrud (glavnyy vrach A.P. Timofeyeva). (LUNGS.—CANCER)

CHUMAKOV, A.A. (Moskva)

"Direct" collateral pathways in the lower extremities in artheriosclerosis and "obliterating endarteritis." Arkh.pat. no.10:52-58 (MIRA 14:10) 161.

1. Iz patologoanatomicheskogo otdeleniya (zav. - deystvitel'nyy chlen AMN SSSR prof. I.V. Davydovskiy) bol'nitsy No.23 imeni Medsantrud (glavnyy vrach A.N. Lobanova).

(ARTERIES--DISEASES) (EXTREMITIES, LOWER--DISEASES)

GRIGORYAN, A.V. (Moskva, Smolenskiy bul'var,d.17,kv.43); RYZHKOV, Ye.V.; SAKHAROV, V.A.; ZHDANOV, V.S.; CHUMAKOV, A.A.

Changes in the bronchial stump and pleural cavity following pneumonectomy and lobectomy. Grud. khir. 1 no.3:62-69 My-Je '59. (MIRA 15:3)

1. Iz kliniki obshchey khirurgii lechebnogo fakul'teta (zav. - prof. V.I. Struchkov) I Moskovskogo ordena Lenina meditsisnkogo instituta imeni I.M. Sechenova, patologoanatomicheskogo otdeleniya (zav. - deystvitel'nyy chlen AMN SSSR prof. I.V. Davydovskiy) bol'nitsy No.23 imeni Soyuza rabotnikov mediko-sanitarnogo dela (glavnyy vrach A.P. Timofeyeva).

(LUNGS-SURCERY)

CHUMAKOV, A.A. (Moskva)

Reparative processes in the aorta following the removal of its adventitia. Arkh.pat. 27 no.7:19-25 165.

(MIRA 18:8)

1. Kafedra patologicheskoy anatomii (zav. - deystvitel'nyy chlen AMN SSSR prof. I.V.Davydovskiy) II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.

CHUMAKOV, A., kand.sel skokhoz.nauk

Survey of grain diseases in 1964. Zashch.rast.ct vred.i bol. 10 no.4:48-49 '65. (MIRA 18:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy.

ZAKHAROVA, T.; CHUMAKOV, A.

Review of the diseases of industrial crops. Zashch. rast. ot vred. i bol. 10 no.5:44-45 '65. (MIRA 18:6)

1. Vsesoyuznyy nauchno-issledovatel skiy institut zashchity rasteniy.

CHUMAKOV, A. F., ENGINEER

"Chemical Stability of Certain Varish-Pain Coating and Methods for Testing Them." Thesis for degree of Cand. Techinal Sci. Sub 4 Jul. 49, Moscow Inst. of Chemical Machine Building.

Summary 82, 18 Dec. 52, <u>Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949.</u> From <u>Vechernyaya Moskva</u>, Jan-Dec. 1949.

CHUMAKOV, A.F.; MAKARENKOVA, L.A.

Corresion protection for retary diffusion apparatus using varnish and paint coatings. Sakh.prom.30 no.5:25-27 My 156. (MIRA 9:9)

1. Nauchne-issledevatel skiy institut khimicheskikh mashin. (Cerresien and anticorresives)

PETROSYANTS, G.A.; CHUMAKOV, A.I., agronom

Following the September Plenum of the Central Committee of the CPSU. Zhivotnovodstvo 20 no.9:15-21 S *58. (MIRA 11:10)

1. Predsedatel' kolkhoza imeni Kalinina, Vysokogorskogo rayona, Tatarskoy SSR (for Petrosyants). 2. Sekretar' partorganizatsii kolkhoza imeni Kalinina, Vysokogorskogo rayona, Tatarskoy SSR (for Chumakov).

(Tatar A.S.S.R. -- Agriculture)

ZAYTSEVA, N.M.; CHUMAKOV, A.N.

Prevention of complications in scarlet fever. Pediatriia, Moskva no.6:38-40 Nov-Dec 1953. (CIML 25:5)

1. Of the Infectious Division of the Department of Children's Diseases (Head of Department -- Yu. F. Dombrovskaya) of First Moscow Order of Lenin Medical Institute located at Children's Hospital imeni I. V. Rusakov (Head Physician -- Docent V. A. Krushkov).

34195 \$/139/61/000/006/015/023 E032/E514

24.6730

AUTHOR: Chumakov, A.S.

TITLE: The motion of electrons inside a bunch in a synchrotron

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, no.6, 1961, 113-117

TEXT: The aim of this work was to derive approximate formulae for the period of phase oscillations and the phase of an electron in a bunch as a function of time. The formulae are derived on the kinematic approximation in which the bunch is looked upon as a system of noninteracting mass points. The analysis starts with the differential equation for the phase of an electron relative to the travelling wave given by M. S. Rabinovich (Ref. 4: Trudy FIAN, 10, 38, 1958). It is pointed out that although it is easy to get the first integral of this differential equation, the second integral can only be evaluated numerically. However, if the sine of the phase angle can be expanded into a Taylor series in powers of the departure of the phase from its equilibrium value, and the first five terms in the expansion are retained, then the

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34155
The motion of electrons inside ... S/139/61/00 /006/015/023 E032/E514

integral can be reduced to a standard elliptical integral. This is shown to lead to a reduction in the region of stable phases, although the general character of the motion is not affected by this approximation. The approximation is better for smaller values of the equilibrium phase. Thus, the present theory includes nonlinear terms. It is noted that in distinction to the linear theory, the expression for the period of the phase oscillations depends on the electron input phase. The expression derived by the present author for the departure of the phase from the equilibrium value may be used to determine graphically the high-frequency phase distribution of the electrons at any instant of time. Acknowledgments are expressed to A.A.Vorob'yev who directed this work and to A. N. Didenko for discussions. There are 1 figure and 5 Soviet-bloc references.

ASSOCIATION: NII pri Tomskom politekhnicheskom institute imeni S.M.Kirova (Scientific Research Institute at the Tomsk Polytechnic Institute imeni S.M. Kirov)

SUBMITTED: October 27, 1960

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X

ACCESSION NR: AR4022440

s/0058/64/000/001/A037/A037

SOURCE: RZh. Fizika, Abs. 1A340

AUTHORS: Didenko, A. N.; Chumakov, A. S.

TITLE: Electron radial and phase oscillations in a synchrotron

CITED SOURCE: Izv. Tomskogo politekhn. in-ta, v. 122, 1962, 61-65

TOPIC TAGS: synchrotron, electron oscillation in synchrotron, electron orbit, electron accelerator, electron phase, electron radius, azimuth dependence, electron radial oscillation, electron phase oscillation

TRANSLATION: An approximate analytic solution is obtained for the equation of radial and phase oscillations in a cyclic accelerator. The dependence of the radius of the instantaneous orbit and of the phase of the particle on the azimuth is expressed in terms of

ACCESSION NR: AR4022441

S/0058/64/000/001/A037/A037

SOURCE: RZh. Fizika, Abs. 1A341

AUTHOR: Chumakov, A. S. produced and the control of the control of

TITLE: Concerning bunching of electrons in a synchrotron

CITED SOURCE: Izv. Tomskogo politekhn. in-ta, v. 122, 1962, 66-69

TOPIC TAGS: synchrotron, electron bunching, electron phase oscillation, azimuth distribution, circulating beam, accelerator injection, pulsed injection, electron accelerator

TRANSLATION: The dependence of the electron phase on the input phase at different instants of time is plotted by obtaining the analytic solution of the equation of the phase oscillations in a synchrotron. This makes it possible to investigate the azimuth distribution (bunching) of a circulating beam at the start of the ac-

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celeration. A corresponding plot is presented for the case when the electrons are injected into the synchrotron in a single rectangular pulse with a duration determined by the width of the capture region. A. Lebedev.

DATE ACQ: 03Mar64

SUB CODE: PH, SD

ENCL: 00

CHUMAKON, A.V.

Agricultural Machinery - Exhibitions.

Made in the land of socialism. Mol. kolkh. 19 no.4, 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

STEPANOV, K. M.; CHUMAKOV, A. Ye.; KORSHUNOVA, A. F.; KOZYREVA, G. A.

Development of field crop diseases in 1959. Zashch. rast. ot vred. 1 bol. 5 no.6:41-44 Je '60. (MIRA 16:1)

(Field crops-Diseases and pests)

CHUMAKOV, A.Ye., kand.sel'skokhozyaystvennykh nauk

CHUMAKOV, A.YE.

CHUMAKOV, A. E. "Biological Method of Disinfecting Soil from the Agent of Wheat Rot, Helminthorsporium sativum, P.K. et V. " Trudy Vsesoiuznogo Instituta Zashchity Rastenii, no. 3, 1951, pp. 58-68. 421 P942

SO: SIRA - SI - 90-53, 15 Dec. 1953

CHUMINOV, A. Ye. SHAPIRO, Isaak Davidovich; CHUMAKOV, Arkadiy Yevgrafovich; AKHREMOVICH, M.B., red.; CHUNAYEVA, Z.V., tekhn.red. [Protecting forage plants from pests and diseases] Zashchita kormovykh kol'tu ot vreditelei i boleznei. Moskva, Gos.izd-vo

sel'khoz.lit-ry, 1957. 278 p. (MIRA 10:12) (Forege plants -- Diseases and pests)

CHUMAKOV, A.Ye. kand.sel'skokhozyaystvennykh nauk

How effective are silicate bacteria? Zashch.rast.ot vred. i bol. 3 no.2:42-43 Mr-Ap '58. (MIRA 11:4) (Bacteria, Silicate)

CHUMAKOV, A.Ye., kand.sel'skokhoz.nauk

Development of field crop diseases in 1960 and a forecast for 1961. Zashch. rast. ot vred. i bol. 6 no.4:48-50 Ap 161. (MIRA 15:6) (Field crops—Diseases and pests)

KHOKHRYAKOV, M.K.; CHUMAKOV, A.Ye.

Protection of pulse crops against main diseases. Zashch. rast. ot vred. i bol. 7 no.2:28-31 F '62. (MIRA 15:12)

1. Vsesoyuznyy institut zashchity rasteniy.
(Legumes—Diseases and pests)

CHUMAKOV, A.Ye., kand.sel'skokhosyaystvennykh nauk

Predicting the spread of main diseases of field crops in 1962.

Zashch. rast. ot vred. i bol. 7 no.3:47-49 Mr '62. (MIRA 15:11)

(Field crops—Diseases and pests)

POLYAKOV, I.Ya., doktor seliskokhoz. nauk; CHUMAKOV, A.Ye., kand. seliskokhoz. nauk

Forecast for grain and pulse crop pests and diseases. Zashch. rast. ot vred. i bol. 8 no.3:40-44 Mr '63. (MIRA 17:1)

CHUMAKOV, A. Ye.

"Cereal rusts in the USSR and the prognosis of disease development."
report submitted for 10th Intl Botanical Cong, Edinburgh, Scotland, 3-12 Aug 64.
Inst of Plant Protection, Leningrad.